

IN THE CLAIMS:

Claims 1, 20-24, 26, 28-42, 44-46, 53-57, 59-61, 68-72, and 74 are amended.

Claim 25 is cancelled.

Claims 75 and 76 are newly added.

All pending claims and their present status are produced below.

1. (Currently amended) A computer-implemented user interface configuration method, for configuring a user interface of ~~[[a]]~~ an software application program and a user interface of an operating system of a computer system, the computer system including a plurality of application programs, the method comprising:

storing a plurality of application program markers, each application program marker associated with one of the plurality of application programs, and indicating a user interaction with the associated one of the application programs;

storing a plurality of operating system markers, each operating system marker indicating a user interaction with the operating system, the operating system markers including a number of currently opened application programs;

assigning weights to each of the plurality of application program markers and each of the plurality of operating system markers;

determining a weighted score as a function of a subset of the weighted operating system markers and a subset of the weighted application program markers;

determining a user proficiency level with respect to the user interface of the ~~software~~ application program and ~~the~~ user interface of the operating system[[.]] based upon the weighted score; and automatically configuring at least one functional component of the user interface of the ~~software~~ application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.

2. (Previously presented) The method of claim 1, wherein automatically configuring the at least one functional component of the user interface comprises:

selecting at least one configuration option from a plurality of configuration options.

3. (Previously presented) The method of claim 1, wherein automatically configuring the at least one functional component of the user interface comprises at least one selected from the group consisting of:

enabling access to a functional user interface element;
disabling access to a functional user interface element; and
changing an appearance of a functional user interface element.

4. (Previously presented) The method of claim 1, wherein automatically configuring the at least one functional component of the user interface comprises:

providing a set of functions including:
enabling access to a command;
disabling access to a command;
changing an appearance of a command;

enabling access to a menu;
disabling access to a menu;
changing an appearance of a menu;
enabling access to a button;
disabling access to a button;
changing an appearance of a button;
enabling access to a shortcut; and
disabling access to a shortcut; and
selecting at least one of the provided functions to configure the functional
component.

5. (Cancelled).

6. (Cancelled).

7. (Cancelled).

8. (Cancelled).

9. (Cancelled).

10. (Cancelled).

11. (Original) The method of claim 1, further comprising:
outputting a notification of a change to user interface configuration.

12. (Original) The method of claim 1, further comprising:

outputting a notification of at least one newly enabled user interface feature.

13. (Previously presented) The method of claim 1, wherein determining the user proficiency level and automatically configuring the user interface are performed responsive to a trigger event.

14. (Original) The method of claim 13, wherein the trigger event comprises user input requesting user interface configuration.

15. (Original) The method of claim 13, wherein the trigger event comprises application startup.

16. (Original) The method of claim 13, wherein the trigger event comprises system startup.

17. (Original) The method of claim 13, wherein the trigger event comprises a change in user behavior with respect to the user interface.

18. (Original) The method of claim 13, wherein the trigger event comprises user logon.

19. (Previously presented) The method of claim 1, wherein determining the user proficiency level and automatically configuring the at least one functional component of the user interface are performed periodically.

20. (Currently amended) The method of claim 1, wherein determining the user proficiency level comprises reading a stored user proficiency level derived from at least one weighted marker.

21. (Currently amended) The method of claim 20, wherein the ~~marker indicates~~ plurality of operating system markers further includes an indication of a historical usage of the each user interface.

22. (Currently amended) The method of claim 1, wherein ~~determining the user proficiency level comprises determining~~ the plurality of operating system markers further includes an indication of whether ~~[[a]] an element of either~~ user interface ~~element~~ has been used.

23. (Currently amended) The method of claim 1, wherein ~~determining the user proficiency level comprises determining~~ the plurality of operating system markers further includes an indication of whether ~~[[a]] an element of the~~ user interface ~~element of the operating system~~ has been used a number of times exceeding a predetermined threshold.

24. (Currently amended) The method of claim 1, wherein ~~determining the user proficiency level comprises determining~~ the plurality of application program markers further includes an indication of a total amount of time spent by a user using ~~[[an]] at least one of the plurality of application programs.~~

25. (Cancelled)

26. (Currently amended) The method of claim 1, wherein ~~determining the user proficiency level comprises determining~~ the plurality of operating system markers further

includes an indication of a historical average number of concurrently open application[[s]] programs.

27. (Cancelled).

28. (Currently amended) The method of claim 1, wherein ~~determining the user-proficiency level comprises determining~~ the plurality of operating system markers further includes an indication of how many windows are open concurrently.

29. (Currently amended) The method of claim 1, wherein ~~determining the user-proficiency level comprises determining~~ the plurality of operating system markers further includes an indication of a historical average number of concurrently open windows.

30. (Currently amended) The method of claim 1, wherein ~~determining the user-proficiency level comprises determining~~ the plurality of operating system markers further includes an indication of a user-specified preference indicating a proficiency level.

31. (Currently amended) The method of claim 1, wherein ~~determining the user-proficiency level comprises determining~~ the plurality of application program markers includes an indication of web page visitation patterns.

32. (Currently amended) The method of claim 1, wherein ~~determining the user-proficiency level comprises determining~~ the plurality of application program markers includes an indication of historical usage of secure web pages.

33. (Currently amended) The method of claim 1, wherein ~~determining the user proficiency level comprises determining the plurality of application program markers includes an indication of~~ historical usage of web pages having active content.

34. (Currently amended) The method of claim 1, wherein:

determining the user proficiency level comprises determining the user proficiency level with respect to a user interface component less than the entire user interface of the operating system; and
automatically configuring the at least one functional component of the each user interface comprises automatically configuring the user interface component without altering the configuration of the remainder of the user interface.

35. (Currently amended) The method of claim 1, wherein:

determining the user proficiency level comprises determining the user proficiency level with respect to [[an]] a selected one of the plurality of application programs; and
automatically configuring at least one functional component of the each user interface comprises automatically configuring the user interface for the selected one of the plurality of application programs.

36. (Currently amended) The method of claim 1, further comprising:

responsive to user behavior with respect to ~~the~~ either the application program user interface or the operating system user interface, storing a corresponding weighted marker ~~indicating a user proficiency level~~;

and wherein determining the ~~user proficiency level~~ weighted score comprises reading the stored weighted marker.

37. (Currently amended) The method of claim 36, wherein:
storing the weighted marker is performed by a first application; and
reading the stored weighted marker is performed by a background process.
38. (Currently amended) The method of claim 36, wherein:
storing the weighted marker is performed by a first application; and
reading the stored weighted marker is performed by a second application
different from the first application.
39. (Currently amended) The method of claim 36, wherein:
storing the weighted marker is performed by an operating system; and
reading the stored weighted marker is performed by the operating system.
40. (Currently amended) The method of claim 39, wherein:
automatically configuring the at least one functional component of ~~the~~
each user interface comprises modifying functional user interface
elements that are supplied to ~~[[a]] the~~ plurality of application~~[[s]]~~
programs and the operating system.
41. (Currently amended) The method of claim 36, wherein:
storing the weighted marker is performed by an operating system; and
reading the stored weighted marker is performed by an application pro-
gram.

42. (Currently amended) The method of claim 1, wherein determining the ~~user-~~
~~proficiency level~~ weighted score comprises retrieving a plurality of stored weighted
markers and aggregating the retrieved markers ~~to derive a proficiency level~~.

43. (Cancelled).

44. (Currently amended) The method of claim 1, further comprising:
accepting user input overriding ~~the~~ a selected one user interface configura-
tion and specifying a desired configuration; and
responsive to the user input, configuring the selected one user interface
according to the desired configuration.

45. (Currently amended) The method of claim 1, wherein:
determining a user proficiency level with respect to a user interface com-
prises determining a user proficiency level with respect to a user
interface of a web-resident application being run from a client ma-
chine; and
automatically configuring the at least one functional component of the
each user interface comprises automatically configuring at least
one functional user interface element for the web-resident applica-
tion.

46. (Currently amended) A computer program product for configuring a user in-
terface of ~~[[a]]~~ an software application program and a user interface of an operating sys-
tem of a computer system, the computer system including a plurality of application pro-
grams, the computer program product comprising:

a computer-readable medium; and

computer program code, encoded on the medium, which the code is executed by the computer system, for:

storing a plurality of application program markers, each application program marker associated with one of the plurality of application programs, and indicating a user interaction with the associated one of the application programs;

storing a plurality of operating system markers, each operating system marker indicating a user interaction with the operating system, the operating system markers including a number of currently opened application programs;

assigning weights to each of the plurality of application program markers and each of the plurality of operating system markers;

determining a weighted score as a function of a subset of the weighted operating system markers and a subset of the weighted application program markers;

determining a user proficiency level with respect to the user interface of the ~~software~~ application program and the user interface of the operating system[[,]] based upon the weighted score; and

automatically configuring at least one functional component of the user interface of the ~~software~~ application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.

47. (Previously presented) The computer program product of claim 46, wherein the computer program code for automatically configuring the at least one functional component of the user interface comprises computer program code for:

selecting at least one configuration option from a plurality of configuration options.

48. (Previously Presented) The computer program product of claim 46, wherein the computer program code for automatically configuring the at least one functional component of the user interface comprises at least one selected from the group consisting of:

computer program code for enabling access to a functional user interface element;

computer program code for disabling access to a functional user interface element; and

computer program code for changing an appearance of a functional user interface element.

49. (Previously presented) The computer program product of claim 46, wherein the computer program code for automatically configuring the at least one functional component of the user interface:

computer program code for enabling access to a command;

computer program code for disabling access to a command;

computer program code for changing an appearance of a command;

computer program code for enabling access to a menu;

computer program code for disabling access to a menu;

computer program code for changing an appearance of a menu;
computer program code for enabling access to a button;
computer program code for disabling access to a button;
computer program code for changing an appearance of a button;
computer program code for enabling access to a shortcut; and
computer program code for disabling access to a shortcut.

50. (Cancelled).

51. (Previously presented) The computer program product of claim 46, wherein the computer program code for determining the user proficiency level and automatically configuring the at least one functional component of the user interface comprises computer program code for performing the determining and configuring steps responsive to a trigger event.

52. (Previously presented) The computer program product of claim 46, wherein the computer program code for determining the user proficiency level and automatically configuring the at least one functional component of the user interface comprises computer program code for performing the determining and configuring steps periodically.

53. (Currently amended) The computer program product of claim 46, wherein the computer program code for determining the user proficiency level comprises computer program code for reading a stored user proficiency level ~~derived~~ determined from at least one weighted marker.

54. (Currently amended) The computer program product of claim 46, wherein:

the computer program code for determining the user proficiency level comprises computer program code for determining the user proficiency level with respect to a user interface component less than the entire user interface of the operating system; and

the computer program code for automatically configuring the at least one functional component of ~~the~~ each user interface comprises computer program code for automatically configuring the functional user interface component without altering the configuration of the remainder of the user interface.

55. (Currently amended) The computer program product of claim 46, wherein:
- the computer program code for determining the user proficiency level comprises computer program code for determining the user proficiency level with respect to ~~[[an]]~~ a selected one of the plurality of application programs; and
- the computer program code for automatically configuring ~~the~~ at least one functional component of ~~the~~ each user interface comprises computer program code for automatically configuring the user interface for the selected one of the plurality of application programs.

56. (Currently amended) The computer program product of claim 46, further comprising:
- computer program code for, responsive to user behavior with respect to ~~the~~ either user interface, storing a corresponding weighted marker indicating a user proficiency level;

and wherein the computer program code for ~~detecting the user proficiency-~~
~~level~~ determining the weighted score comprises computer program
code for reading the stored weighted marker.

57. (Currently amended) The computer program product of claim 46, wherein
the computer program code for ~~detecting the user proficiency level~~ determining the
weighted score comprises computer program code for retrieving a plurality of stored
weighted markers and aggregating the retrieved markers to ~~derive~~ determine a profi-
ciency level.

58. (Cancelled).

59. (Currently amended) The computer program product of claim 46, wherein:
the computer program code for determining a user proficiency level with
respect to a user interface comprises computer program code for
determining a user proficiency level with respect to a user interface
of a web-resident application being run from a client machine; and
the computer program code for automatically configuring the at least one
functional component of ~~the~~ each user interface comprises com-
puter program code for automatically configuring at least one func-
tional user interface element for the web-resident application.

60. (Currently amended) A system for configuring a user interface of a ~~software~~
application program and a user interface of an operating system of a computer system,
the computer system including a plurality of application programs, the system compris-
ing:

means for storing a plurality of application markers, each application program marker associated with one of the plurality of application programs, and indicating a user interaction with the associated one of the application programs;

means for storing a plurality of operating system markers, each operating system marker indicating a user interaction with the operating system, the operating system markers including a number of currently opened application programs;

means executed by a computer system for assigning weights to each of the plurality of application program markers and each of the plurality of operating system markers;

means executed by the computer system for determining a weighted score as a function of a subset of the weighted operating system markers and a subset of the weighted application program markers;

means executed by the computer system, for determining a user proficiency level with respect to the user interface of the ~~software~~ application program and the user interface of the operating system[[.]] based upon the weighted score; and

means executed by the computer system, for automatically configuring at least one functional component of the user interface of the ~~software~~ application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.

61. (Currently amended) A system for configuring a user interface of [[a]] an ~~software~~ application program and a user interface of an operating system of a computer

system, the computer system including a plurality of application programs, the system comprising:

- a marker storage device for,
 - storing a plurality of application program markers, each application program marker associated with one of the plurality of application programs, and indicating a user interaction with the associated one of the application programs; and
 - storing a plurality of operating system markers, each operating system marker indicating a user interaction with the operating system, the operating system markers including a number of currently opened application programs;
- a user proficiency level determiner, executed by the computer system and coupled to the marker storage device, for
 - assigning weights to each of the plurality of application program markers and each of the plurality of operating system markers;
 - determining a weighted score as a function of a subset of the weighted operating system markers and a subset of the weighted application program markers; and
 - determining a user proficiency level with respect to the user interface of the ~~software~~ application program and the user interface of the operating system[[.]] based at least in part upon the weighted score; and
- a user interface configuration module, executed by the computer system and coupled to the user proficiency level determiner, for

automatically configuring at least one functional component of the user interface of the ~~software~~ application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.

62. (Original) The system of claim 61, wherein the user interface configuration module selects at least one configuration option from a plurality of configuration options.

63. (Previously presented) The system of claim 61, wherein the user interface configuration module comprises program code for performing the functions of:

- enabling access to a functional user interface element;
- disabling access to a functional user interface element; and
- changing an appearance of a functional user interface element; and

wherein the user interface configuration module selects at least one of the functions to configure the user interface of the software application and the user interface of the operating system.

64. (Previously presented) The system of claim 61, wherein the user interface configuration module comprises program code for performing the functions of:

- enabling access to a command;
- disabling access to a command;
- changing an appearance of a command;
- enabling access to a menu;
- disabling access to a menu;
- changing an appearance of a menu;
- enabling access to a button;

disabling access to a button;
changing an appearance of a button;
enabling access to a shortcut; and
disabling access to a shortcut; and
wherein the user interface configuration module selects at least one of the functions to configure the user interface of the software application and the user interface of the operating system.

65. (Cancelled).

66. (Original) The system of claim 61, wherein the user proficiency level detector and the user interface configuration module operate responsive to a trigger event.

67. (Previously presented) The system of claim 61, wherein the user proficiency level determiner and the user interface configuration module operate periodically.

68. (Currently amended) The system of claim 61, wherein the user proficiency level determiner reads a stored user proficiency level derived from at least one weighted marker.

69. (Currently amended) The system of claim 61, wherein:
the user proficiency level determiner determines the user proficiency level
with respect to a user interface component less than the entire user
interface of the operating system; and
the user interface configuration module automatically configures the at
least one functional component of ~~the~~ each user interface com-

prises automatically configuring the functional component without altering the configuration of the remainder of the user interface.

70. (Currently amended) The system of claim 61, wherein:

the user proficiency level determiner determines the user proficiency level with respect to ~~[[an]]~~ a selected one of the plurality of application programs; and

the user interface configuration module automatically configures the at least one functional component of the user interface for the selected one of the plurality of application programs.

71. (Currently amended) The system of claim 61, further comprising:

a marker storage device~~[[,]]~~ for, responsive to user behavior with respect to ~~the either~~ user interface, storing a corresponding weighted marker ~~indicating a user proficiency level~~;

wherein the user proficiency level determiner reads the stored weighted marker from the marker storage device.

72. (Currently amended) The system of claim 61, wherein the user proficiency level determiner retrieves a plurality of stored weighted markers and aggregates the retrieved markers to ~~derive~~ determine a proficiency-level weighted score.

73. (Cancelled).

74. (Currently amended) The system of claim 61, wherein:

the user proficiency level determiner determines a user proficiency level with respect to a user interface of a web-resident application being run from a client machine; and

the user interface configuration module automatically configures at least one functional user interface element for the web-resident application.

75. (New) A computer-implemented user interface configuration method, for configuring a user interface of an application program and a user interface of an operating system of a computer system, the computer system including a plurality of application programs, the method comprising:

determining a user proficiency level with respect to the user interface of the application program and user interface of the operating system based upon a number of application programs currently open, a historical average number of concurrently open applications, a number of windows currently open, and a historical average number of concurrently open windows; and

automatically configuring at least one functional component of the user interface of the application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.

76. (New) A computer-implemented user interface configuration method, for configuring a user interface of an application program and a user interface of an operating system of a computer system, the computer system including a plurality of application programs, the method comprising:

determining a user proficiency level with respect to the user interface of the application program and user interface of the operating system based upon at least two markers from a set of markers including a number of application programs currently open, a historical average number of concurrently open applications, a number of windows currently open, a historical average number of concurrently open windows, a number of times a user interface has been used, and a total amount of time spent by a user using an application; and automatically configuring at least one functional component of the user interface of the application program and at least one functional component of the user interface of the operating system responsive to the user proficiency level.